Please provide the following information, and submit to the NOAA DM Plan Repository.

Reference to Master DM Plan (if applicable)

As stated in Section IV, Requirement 1.3, DM Plans may be hierarchical. If this DM Plan inherits provisions from a higher-level DM Plan already submitted to the Repository, then this more-specific Plan only needs to provide information that differs from what was provided in the Master DM Plan.

URL of higher-level DM Plan (if any) as submitted to DM Plan Repository:

1. General Description of Data to be Managed

1.1. Name of the Data, data collection Project, or data-producing Program:
2008 St. Johns County, FL Countywide Lidar

1.2. Summary description of the data:
Airborne terrestrial LiDAR was collected for St. Johns County, FL. System Parameters/ Flight Plan. The LiDAR system acquisition

parameters were developed based on a maximum average ground sample distance of 2. 1 feet. A Leica ALS50 LiDAR sensor was used for acquisition.

Acquisition specifications for the sensor follows: Field of View (full angle) - 24 degrees, Nominal flight altitude (AGL) - 3000 feet,

Airspeed - 130 mph (113 knots), Laser pulse rate - 100,000 Hz, Nominal swath width (on ground) - 1275 feet, Maximum cross track point

spacing - 2.07 feet, Maximum along track point spacing - 4.30 feet, Average point spacing - 1.67 feet, Flight line spacing - 970.47 feet,

Side overlap - 23.91 percent. LiDAR System Calibration. Prior to the LiDAR acquisition, the system underwent a calibration to verify the

operational accuracy and misalignment angles. Boresight calibrations were performed for the LiDAR system at the beginning and end of each

flight mission. LiDAR Data Acquisition. LiDAR data acquisition only occurred when the sky was sufficiently clear of clouds, smoke, and

atmospheric haze. The LiDAR data was processed immediately after the acquisition to verify the coverage had no voids. GPS/Inertial Measurement

Unit (IMU) Post Processing. The GPS and IMU data was post processed using differential and kalman filter algorithms to derive a best estimate

of trajectory. The quality of the solution was verified to be consistent with the accuracy requirements of the project. LiDAR Processing and

Classification. The LiDAR data was post processed and verified to be consistent with the

project requirements in terms of post spacing and

absence of artifacts. The point cloud underwent classification to determine bare-earth points (class 2), noise points (class 7), water

returns (class 9), and unclassified data (class 1). Class 12 contains LiDAR points removed from the overlap region between adjacent flight

lines.

Original contact information:

  Contact Org: St. Johns County GIS Division

  Phone: 904-209-0778

  Email: gis@sjcfl.us

1.3. Is this a one-time data collection, or an ongoing series of measurements?
One-time data collection

1.4. Actual or planned temporal coverage of the data:
2008-02-14, 2008-02-15, 2008-02-16, 2008-02-17, 2008-02-19, 2008-02-20, 2008-02-21, 2008-02-25

1.5. Actual or planned geographic coverage of the data:
W: -81.669741, E: -81.212177, N: 30.253509, S: 29.621834

1.6. Type(s) of data:
(e.g., digital numeric data, imagery, photographs, video, audio, database, tabular data, etc.)
LAS

1.7. Data collection method(s):
(e.g., satellite, airplane, unmanned aerial system, radar, weather station, moored buoy, research vessel, autonomous underwater vehicle, animal tagging, manual surveys, enforcement activities, numerical model, etc.)

1.8. If data are from a NOAA Observing System of Record, indicate name of system:

1.8.1. If data are from another observing system, please specify:

2. Point of Contact for this Data Management Plan (author or maintainer)

2.1. Name:
NOAA Office for Coastal Management (NOAA/OCM)

2.2. Title:
Metadata Contact

2.3. Affiliation or facility:
NOAA Office for Coastal Management (NOAA/OCM)

2.4. E-mail address:
coastal.info@noaa.gov

2.5. Phone number:
(843) 740-1202

3. Responsible Party for Data Management
Program Managers, or their designee, shall be responsible for assuring the proper management of the data produced by their Program. Please indicate the responsible party below.

3.1. Name:

3.2. Title:
Data Steward

4. Resources
Programs must identify resources within their own budget for managing the data they produce.

4.1. Have resources for management of these data been identified?

4.2. Approximate percentage of the budget for these data devoted to data management (specify percentage or "unknown"):

5. Data Lineage and Quality
NOAA has issued Information Quality Guidelines for ensuring and maximizing the quality, objectivity, utility, and integrity of information which it disseminates.

5.1. Processing workflow of the data from collection or acquisition to making it publicly accessible
(describe or provide URL of description):
Process Steps:
- 2008-01-06 00:00:00 - Ground (class 2) LAS points were extracted in ArcMap, using a Woolpert Team-developed VB Script, and loaded into the MASSPOINTS feature class for each area's Geodatabase as multipoint geometry.
- 2011-11-15 00:00:00 - The NOAA Office for Coastal Management received the data in LAS format. The files contained Lidar elevation and intensity measurements. The data were projected in State Plane coordinates (NAD83; Florida East) and referenced to the North American Vertical Datum of 1988 (NAVD88) using the Geoid03 model. The following processes were performed to make the data available within the Digital Coast: 1. The data were converted from state plane (NAD83; Florida East) to geographic coordinates (NAD83). 2. The data were converted from NAVD88 (orthometric) heights to GRS80 (ellipsoidal) heights using the Geoid03

model. 3. The LAS data were sorted by latitude and the headers were updated.

5.1.1. If data at different stages of the workflow, or products derived from these data, are subject to a separate data management plan, provide reference to other plan:

5.2. Quality control procedures employed (describe or provide URL of description):

6. Data Documentation
The EDMC Data Documentation Procedural Directive requires that NOAA data be well documented, specifies the use of ISO 19115 and related standards for documentation of new data, and provides links to resources and tools for metadata creation and validation.

6.1. Does metadata comply with EDMC Data Documentation directive?
No

6.1.1. If metadata are non-existent or non-compliant, please explain:
Missing/invalid information:
- 1.7. Data collection method(s)
- 3.1. Responsible Party for Data Management
- 4.1. Have resources for management of these data been identified?
- 4.2. Approximate percentage of the budget for these data devoted to data management
- 5.2. Quality control procedures employed
- 7.1. Do these data comply with the Data Access directive?
- 7.1.1. If data are not available or has limitations, has a Waiver been filed?
- 7.1.2. If there are limitations to data access, describe how data are protected
- 7.4. Approximate delay between data collection and dissemination
- 8.1. Actual or planned long-term data archive location
- 8.3. Approximate delay between data collection and submission to an archive facility
- 8.4. How will the data be protected from accidental or malicious modification or deletion prior to receipt by the archive?

6.2. Name of organization or facility providing metadata hosting:
NMFS Office of Science and Technology

6.2.1. If service is needed for metadata hosting, please indicate:

6.3. URL of metadata folder or data catalog, if known:
https://www.fisheries.noaa.gov/inport/item/49695

6.4. Process for producing and maintaining metadata
(describe or provide URL of description):
Metadata produced and maintained in accordance with the NOAA Data Documentation

Procedural Directive: https://nosc.noaa.gov/EDMC/DAARWG/docs/EDMC_PD-
Data_Documentation_v1.pdf

7. Data Access

NAO 212-15 states that access to environmental data may only be restricted when distribution is explicitly limited by law, regulation, policy (such as those applicable to personally identifiable information or protected critical infrastructure information or proprietary trade information) or by security requirements. The EDMC Data Access Procedural Directive contains specific guidance, recommends the use of open-standard, interoperable, non-proprietary web services, provides information about resources and tools to enable data access, and includes a Waiver to be submitted to justify any approach other than full, unrestricted public access.

7.1. Do these data comply with the Data Access directive?

7.1.1. If the data are not to be made available to the public at all, or with limitations, has a Waiver (Appendix A of Data Access directive) been filed?

7.1.2. If there are limitations to public data access, describe how data are protected from unauthorized access or disclosure:

7.2. Name of organization of facility providing data access:
NOAA Office for Coastal Management (NOAA/OCM)

7.2.1. If data hosting service is needed, please indicate:

7.2.2. URL of data access service, if known:
https://coast.noaa.gov/dataviewer/#/lidar/search/where:ID=1119
https://coast.noaa.gov/htdata/lidar1_z/geoid18/data/1119

7.3. Data access methods or services offered:
This data can be obtained on-line at the following URL: https://coast.noaa.gov/
dataviewer;

7.4. Approximate delay between data collection and dissemination:

7.4.1. If delay is longer than latency of automated processing, indicate under what authority data access is delayed:

8. Data Preservation and Protection

The NOAA Procedure for Scientific Records Appraisal and Archive Approval describes how to identify, appraise and decide what scientific records are to be preserved in a NOAA archive.

8.1. Actual or planned long-term data archive location:

(Specify NCEI-MD, NCEI-CO, NCEI-NC, NCEI-MS, World Data Center (WDC) facility, Other, To Be Determined, Unable to Archive, or No Archiving Intended)

8.1.1. If World Data Center or Other, specify:

8.1.2. If To Be Determined, Unable to Archive or No Archiving Intended, explain:

8.2. Data storage facility prior to being sent to an archive facility (if any):
Office for Coastal Management - Charleston, SC

8.3. Approximate delay between data collection and submission to an archive facility:

8.4. How will the data be protected from accidental or malicious modification or deletion prior to receipt by the archive?
Discuss data back-up, disaster recovery/contingency planning, and off-site data storage relevant to the data collection

9. Additional Line Office or Staff Office Questions
Line and Staff Offices may extend this template by inserting additional questions in this section.